

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments
1	BRS	L1	8	("4262306" "5107845" "56025 85" "5648815" "5684887" "58 47755" "5930379" "6062216") .PN.	USPAT	2005/05/24 08:37	
2	BRS	L2	8	1 and difference\$1	USPAT	2005/05/24 08:37	
3	BRS	L3	1	2 and (color\$1 nearl0 difference\$1)	USPAT	2005/05/24 08:38	
4	BRS	L4	0	2 and pseudocolor	USPAT	2005/05/24 08:41	
5	IS&R	L5	2444	(382/232,236,251,245).CCLS.	USPAT	2005/05/24 08:41	
6	BRS	L6	90	synchronous same compress\$3 same (mov\$6 or motion) same (frame\$1 or video)	USPAT	2005/05/24 09:17	
7	BRS	L7	4	6 same difference\$1	USPAT	2005/05/24 08:43	
8	BRS	L8	3	7 same (color\$1 or rgb)	USPAT	2005/05/24 08:43	
9	BRS	L9	193	(synchronous near5 video) same (mov\$6 or motion)	USPAT	2005/05/24 08:46	
10	BRS	L10	18	9 same color\$1	USPAT	2005/05/24 08:46	
11	BRS	L11	3	10 same (difference\$1 or change\$1)	USPAT	2005/05/24 08:47	

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments
12	BRS	L12	191	(color\$1 near3 (difference\$1 or chang\$3) same ((previous or current or prior or preced\$3) near3 frame\$1)	USPAT	2005/05/24 08:49	
13	BRS	L13	13	12 and pseudo\$6	USPAT	2005/05/24 08:57	
14	BRS	L14	166	(pseudo-color\$1 or pseudocolor\$1 or (pseudo adj color\$1) same map\$5 same color\$1)	USPAT	2005/05/24 09:22	
15	BRS	L15	21	14 same (color\$1 near5 (difference\$1 or variation\$1))	USPAT	2005/05/24 09:22	
16	BRS	L16	2	color\$1 with difference\$1 with (pseudocolor\$1 or pseudo-color\$1 or (pseudo adj color\$1) with frame\$1	USPAT	2005/05/24 09:05	
17	BRS	L17	323	(color\$1 near2 difference\$1) same (mov\$6 or motion) same video	USPAT	2005/05/24 09:06	
18	BRS	L18	10	5 and 17	USPAT	2005/05/24 09:06	
19	BRS	L19	2	5 and 6	USPAT	2005/05/24 09:19	
20	BRS	L20	2	19 and difference\$1	USPAT	2005/05/24 09:19	
21	BRS	L21	0	19 and (color\$1 near2 difference\$1)	USPAT	2005/05/24 09:20	

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments
22	BRS	L22	45	movement same video same color same (frame\$1 near10 (difference\$1 or subtract\$5 or variation))	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:21	
23	BRS	L23	0	22 and (pseudo-color\$1 or pseudocolor\$1 or (pseudo adj color\$1) or (artificial near1 color\$1) or artificialcolor\$1) same map\$5 same color\$1	USPAT	2005/05/24 10:07	
24	BRS	L24	2	22 and (artificialcolor\$1 or (artificial adj color\$1) or pseudo-color\$1 or pseudocolor\$1 or (pseudo adj color\$1))	USPAT	2005/05/24 09:55	
25	BRS	L25	61	((artificialcolor\$1 or (artificial adj color\$1) or pseudo-color\$1 or pseudocolor\$1 or (pseudo adj color\$1) near2 scal\$3)	USPAT	2005/05/24 09:28	
26	BRS	L26	1	25 same difference\$1	USPAT	2005/05/24 09:32	

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments
27	BRS	L27	73	(color\$1 near2 (difference\$1 or chang\$3 or variation\$1) same (video or frame\$1) same ((below or less or greater or above) near3 (threshold\$3 or (predetermined adj value)))	USPAT	2005/05/24 09:35	
28	BRS	L28	10	27 same compress\$3	USPAT	2005/05/24 09:45	
29	BRS	L29	4245	(update\$3 near3 frame\$1)	USPAT	2005/05/24 09:45	
30	BRS	L30	27	29 same (color\$1 near2 (chang\$3 or variation\$1 or difference\$1))	USPAT	2005/05/24 09:52	
31	BRS	L31	1632	(sum\$4 or cumulative or accumulat\$3 or add\$3) near3 (color\$1 near2 (chang\$3 or variation\$1 or difference\$1))	USPAT	2005/05/24 09:53	
32	BRS	L32	59	31 same threshold\$3	USPAT	2005/05/24 09:54	
33	BRS	L33	9	32 same (video or frame\$1)	USPAT	2005/05/24 10:02	
34	BRS	L34	0	33 and (artificialcolor\$1 or (artificial adj color\$1) or pseudo-color\$1 or pseudo-color\$1 or (pseudo adj color\$1))	USPAT	2005/05/24 09:55	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
35	BRS	L35	5	33 and (lookup or look-up or (color\$1 near1 table\$1))	USPAT	2005/05/24 10:03	
36	BRS	L36	61	((pseudo-color\$1 or pseudocolor\$1 or (pseudo adj color\$1) or (artificial near1 color\$1) or artificialcolor\$1) near2 scal\$3)	USPAT	2005/05/24 10:07	
37	BRS	L37	0	36 same (color\$1 near2 difference\$1)	USPAT	2005/05/24 10:07	
38	BRS	L38	2	36 and (color\$1 near2 difference\$1)	USPAT	2005/05/24 10:07	

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<u>L1</u>	movement same difference same color same threshold\$3	46	<u>L1</u>
<u>L2</u>	L1 same ((color near1 table) or lookup or look-up or map\$4)	2	<u>L2</u>
<u>L3</u>	L1 same (frame or video)	24	<u>L3</u>
<u>L4</u>	L3 and compress\$3	15	<u>L4</u>
<u>L5</u>	(synchronous near2 video) same (color near2 difference)	14	<u>L5</u>
<u>L6</u>	L5 same threshold\$3	0	<u>L6</u>
<u>L7</u>	cumulative near1 color near1 differenceL6	0	<u>L7</u>
<u>L8</u>	cumulative near1 color near1 difference	2	<u>L8</u>
<u>L9</u>	pixel same truncat\$3 same difference same color	33	<u>L9</u>
<u>L10</u>	L9 same frame	6	<u>L10</u>
<u>L11</u>	pseudocolor	724	<u>L11</u>
<u>L12</u>	L11 same difference	72	<u>L12</u>
<u>L13</u>	L12 same color	52	<u>L13</u>
<u>L14</u>	L13 same frame	1	<u>L14</u>

<u>L15</u>	L13 and compress\$3	11	<u>L15</u>
<u>L16</u>	pseudocolor near2 scal\$3	328	<u>L16</u>
<u>L17</u>	L16 same video	6	<u>L17</u>
<u>L18</u>	L16 same pixel	5	<u>L18</u>
<u>L19</u>	5664029.pn.	2	<u>L19</u>

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- 1. Low bit rate video coding using robust motion vector regeneration in the decode**
 Banham, M.R.; Brailean, J.C.; Chan, C.L.; Katsaggelos, A.K.;
Image Processing, IEEE Transactions on
 Volume 3, Issue 5, Sept. 1994 Page(s):652 - 665
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- 2. A new noise reduction system for video camera**
 Nakajima, Y.; Hamasaki, T.; Nakayama, M.; Kitamura, Y.;
Consumer Electronics, IEEE Transactions on
 Volume 37, Issue 3, Aug 1991 Page(s):213 - 219
[AbstractPlus](#) | Full Text: [PDF\(400 KB\)](#) IEEE JNL
- 3. Tree-structured scene adaptive coder**
 Strobach, P.;
Communications, IEEE Transactions on
 Volume 38, Issue 4, April 1990 Page(s):477 - 486
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 Takahashi, N.;
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 Volume 34, Issue 1, Feb. 1988 Page(s):64 - 71
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- 5. An efficient algorithm for video sequence matching using the modified Hausdorff the directed divergence**
 Sang Hyun Kim; Rae-Hong Park;
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- 6. Performance characterization of video-shot-change detection methods**
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Yi-Jen Chin; Berger, T.;
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9. Interframe Coding for 4-MHz Color Television Signals
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Communications, IEEE Transactions on [legacy, pre - 1988]
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10. Transmitting 4-MHz TV Signals by Combinational Difference Coding
Yasuda, H.; Kuroda, H.; Kawanishi, H.; Kanaya, F.; Hashimoto, H.;
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Communications and Information Technology, 2004. ISCIT 2004. IEEE International Symposium on
Volume 2, 26-29 Oct. 2004 Page(s):1246 - 1251 vol.2
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12. Hand region extraction and gesture recognition from video stream with complex constraints through entropy analysis
JongShill Lee; YoungJoo Lee; EungHyuk Lee; SeungHong Hong;
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Wu Si; Zhang Yong-dong; Lin Shou-xun;
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16. Some experiments on vector quantization using neural nets

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21. Image sequence coding using a contour-based method

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23. Towards physics-based segmentation of photographic color images

Luo, J.; Gray, R.T.; Hsien-Che Lee;
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Vander Haeghen, Y.; Naeyeart, J.M.; Lemahieu, I.

Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th Annual International Conference of the IEEE

Volume 2, 29 Oct.-1 Nov. 1998 Page(s):944 - 949 vol.2

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1 Automatic parsing for content analysis

Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Full text available: [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

2 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

3 Japanese prosodic phrasing and intonation synthesis

Mary E. Beckman, Janet B. Pierrehumbert

July 1986 **Proceedings of the 24th conference on Association for Computational Linguistics**

Full text available: [pdf\(777.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

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A computer program for synthesizing Japanese fundamental frequency contours implements our theory of Japanese intonation. This theory provides a complete qualitative description of the known characteristics of Japanese intonation, as well as a quantitative model of tone-scaling and timing precise enough to translate straightforwardly into a computational

algorithm. An important aspect of the description is that various features of the intonation pattern are designated to be phonological properti ...

4 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available:  pdf(4.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

5 Integrating planning and task-based design for multimedia presentation

Stephan Kerpedjiev, Giuseppe Carenini, Steven F. Roth, Johanna D. Moore

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**

Full text available:  pdf(970.04 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: information graphics, information seeking tasks, media allocation, multimedia presentation, presentation planning

6 Is Huffman coding dead? (extended abstract)

Abraham Bookstein, Shmuel T. Klein, Timo Raita

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  pdf(734.79 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Effects of adjective orientation and gradability on sentence subjectivity

Vasileios Hatzivassiloglou, Janyce M. Wiebe

July 2000 **Proceedings of the 17th conference on Computational linguistics - Volume 1**

Full text available:  pdf(692.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Subjectivity is a pragmatic, sentence-level feature that has important implications for text processing applications such as information extraction and information retrieval. We study the effects of dynamic adjectives, semantically oriented adjectives, and gradable adjectives on a simple subjectivity classifier, and establish that they are strong predictors of subjectivity. A novel trainable method that statistically combines two indicators of gradability is presented and evaluated, complementin ...

8 Special issue dedicated to Claude E. Shannon: A mathematical theory of communication

C. E. Shannon

January 2001 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 5 Issue 1

Full text available:  pdf(3.45 MB)

Additional Information: [full citation](#), [citations](#)

- 9 Designing multimedia: Dynamic key frame presentation techniques for augmenting video browsing 

Tony Tse, Gary Marchionini, Wei Ding, Laura Slaughter, Anita Komlodi

May 1998 **Proceedings of the working conference on Advanced visual interfaces**

Full text available:  pdf(1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Because of unique temporal and spatial properties of video data, different techniques for summarizing videos have been proposed. Key frames extracted directly from video inform users about content without requiring them to view the entire video. As part of ongoing work to develop video browsing interfaces, several interface displays based on key frames were investigated. Variations on dynamic key frame "slide shows" were examined and compared to a static key frame "filmstrip" display. The slide ...

Keywords: display rate, divided attention, dynamic displays, interface design, key frames, representations, video browsing

- 10 The rhythm of lexical stress in prose 

Doug Beeferman

June 1996 **Proceedings of the 34th conference on Association for Computational Linguistics**

Full text available:  pdf(718.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

 Publisher Site

"Prose rhythm" is a widely observed but scarcely quantified phenomenon. We describe an information-theoretic model for measuring the regularity of lexical stress in English texts, and use it in combination with trigram language models to demonstrate a relationship between the probability of word sequences in English and the amount of rhythm present in them. We find that the stream of lexical stress in text from the Wall Street Journal has an entropy rate of less than 0.75 bits per syllable for c ...

- 11 Cross-lingual C*ST*RD: English access to Hindi information 

Anton Leuski, Chin-Yew Lin, Liang Zhou, Ulrich Germann, Franz Josef Och, Eduard Hovy

September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**,

Volume 2 Issue 3

Full text available:  pdf(210.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present C*ST*RD, a cross-language information delivery system that supports cross-language information retrieval, information space visualization and navigation, machine translation, and text summarization of single documents and clusters of documents.

C*ST*RD was assembled and trained within 1 month, in the context of DARPA's Surprise Language Exercise, that selected as source a heretofore unstudied language, Hindi. Given the brief time, we could not create deep Hindi capabilities for all th ...

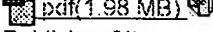
Keywords: Cross-language information retrieval, Hindi-to-English machine translation, headline generation, information retrieval and information space navigation, single- and multi-document text summarization

- 12 Special issue on tense and aspect: A computational model of the semantics of tense and aspect 

Rebecca J. Passonneau

June 1988 **Computational Linguistics**, Volume 14 Issue 2

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Publisher Site

The PUNDIT natural-language system processes references to situations and the intervals over which they hold using an algorithm that integrates the analysis of tense and aspect. For each tensed clause, PUNDIT processes the main verb and its grammatical categories of tense, perfect, and progressive in order to extract three complementary pieces of temporal information. The first is whether a situation has *actual* time associated with it. Secondly, for each situation that is presumed to take ...

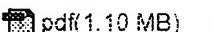
13 [Key frame preview techniques for video browsing](#)



Anita Komlodi, Gary Marchionini

May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available:



Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

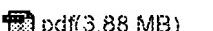
14 [Generating text from compressed input: an intelligent interface for people with severe motor impairments](#)



Patrick W. Demasco, Kathleen F. McCoy

May 1992 **Communications of the ACM**, Volume 35 Issue 5

Full text available:



Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: text processing

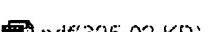
15 [Query evaluation via tree-decompositions](#)



Jörg Flum, Markus Frick, Martin Grohe

November 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 6

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A number of efficient methods for evaluating first-order and monadic-second order queries on finite relational structures are based on tree-decompositions of structures or queries. We systematically study these methods. In the first part of the article, we consider arbitrary formulas on tree-like structures. We generalize a theorem of Courcelle [1990] by showing that on structures of bounded tree-width a monadic second-order formula (with free first- and second-order variables) can be evaluated in ...

Keywords: Acyclic conjunctive queries, combined complexity, hypergraphs, monadic second-order logic, tree-width

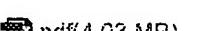
16 [Special relations in automated deduction](#)



Zohar Manna, Richard Waldinger

January 1986 **Journal of the ACM (JACM)**, Volume 33 Issue 1

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Two deduction rules are introduced to give streamlined treatment to relations of special importance in an automated theorem-proving system. These rules, the relation replacement and relation matching rules, generalize to an arbitrary binary relation the paramodulation and E-resolution rules, respectively, for equality, and may operate within a nonclausal or

clausal system. The new rules depend on an extension of the notion of polarity to ap ...

17 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available:  [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

18 The acquisition and use of context-dependent grammars for English

Robert F. Simmons, Yeong-Ho Yu

December 1992 **Computational Linguistics**, Volume 18 Issue 4

Full text available:   [pdf\(1.70 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [Publisher Site](#)

This paper introduces a paradigm of context-dependent grammar (CDG) and an acquisition system that, through interactive teaching sessions, accumulates the CDG rules. The resulting context-sensitive rules are used by a stack-based, shift/reduce parser to compute unambiguous syntactic structures of sentences. The acquisition system and parser have been applied to the phrase structure and case analyses of 345 sentences, mainly from newswire stories, with 99% accuracy. Extrapolation from our current ...

19 Not-equal scan as a matter of faith?

Gérard A. Langlet

December 1992 **ACM SIGART APL Quote Quad**, Volume 23 Issue 2

Full text available:  [pdf\(439.80 KB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

20 Efficient web browsing on handheld devices using page and form summarization

January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1

Full text available:  [pdf\(4.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into text units that can each be hidden, partially displayed, made fully visible, or summarized. A variety of methods are introduced that summarize the text units. In addition, HTML forms are also summarized by displaying just the t ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile computing, summarization, ubiquitous computing, wireless computing

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